# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

**Revision date** 07-Feb-2022 **Supersedes Date:** 20-May-2020 **Revision Number** 1

## 1. IDENTIFICATION

**Product identifier**
**Product Name** GMOP

**Other means of identification**
**Product Code(s)** 8676-8

**Synonyms** Potash
Muriate of potash (MOP)
Potassium chloride
granules

**Recommended use of the chemical and restrictions on use**
**Recommended use** Fertilizer
Formulation additive

**Supplier's details**
**Manufacturer**
Dead Sea Works LTD
P.O.B. 75 Beer Sheva 8410001, Israel
Tel: +972-8-6297835
e-mail:msdsinfo@icl-group.com

**Emergency telephone number**
**Emergency Telephone** +972-8-9977577

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

### GHS Label elements, including precautionary statements

This product is not classified as hazardous according to the UN GHS guideline and labeling is not required

**Other hazards which do not result in classification**
No information available

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance
Not applicable

### Mixture

| Chemical name | CAS No | Weight-% |
|---|---|---|
| potassium chloride | 7447-40-7 | >95 |

## 4. FIRST AID MEASURES

### Description of necessary first aid measures

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately.
NOTE: Never give an unconscious person anything to drink

### Most important symptoms/effects, acute and delayed

**Symptoms** No information available.

### Indication of immediate medical attention and special treatment needed, if necessary

**Note to physicians** Treat symptomatically and supportively.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Specific hazards arising from the chemical

**Specific hazards arising from the chemical** May emit toxic fumes under fire conditions.

**Hazardous combustion products** Hydrogen chloride. Chlorine gas. Potassium oxides.

### Special protective actions for fire-fighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with water spray. Contain runoff to prevent entry into water or drainage systems.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation. Avoid generation of dust.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information. Should not be released into the environment.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid generation of dust.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Protect from moisture. Hygroscopic.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

| Chemical name | ACGIH TLV | OSHA PEL | European Union | China |
|---|---|---|---|---|
| potassium chloride<br>7447-40-7 | - | - | - | - |

### Appropriate engineering controls

**Engineering controls** Eyewash stations
Showers
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Chemical safety goggles.

**Hand protection** Protective gloves

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** Not normally required; In case of dust formation use an approved particulate respirator.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

| | |
|---|---|
| **Physical state** | Solid |
| **Appearance** | crystalline |
| **Color** | White |
| **Odor** | None |
| **Odor threshold** | Not available |

| Property | Values | Remarks • Method |
|---|---|---|
| **Melting point / freezing point** | 773 °C | |
| **Boiling point / boiling range** | 1500 °C | Sublimation point |
| **Flammability (solid, gas)** | Not flammable . | |
| **Flammability Limit in Air** | | None known |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive** | No data available | |

| | | |
|---|---|---|
| **limits** | | |
| **Flash point** | No data available | None known |
| **Autoignition temperature** | No data available | Not self-ignitable |
| **Decomposition temperature** | > 700 °C | |
| **pH** | 10.5 | |
| **pH (as aqueous solution)** | No data available | None known |
| **Kinematic viscosity** | No data available | None known |
| **Dynamic viscosity** | No data available | |
| **Water solubility** | 28.1g/100ml at 0°C | |
| **Solubility(ies)** | Alcohol. Methanol. Glycerin. Ether. | |
| **Partition coefficient** | No data available | None known |
| **Vapor pressure** | No data available | |
| **Relative density** | 1.987 | |
| **Bulk density** | No data available | |
| **Liquid Density** | No data available | |
| **Vapor density** | No data available | |
| **Particle characteristics** | | |
| **Particle Size** | No information available | |
| **Particle Size Distribution** | No information available | |

**Other information**

| | |
|---|---|
| **Fire point** | No information available |
| **Oxidizing properties** | The structure indicates non oxidizing properties |
| **Explosive properties** | Product does not present an explosion hazard |
| **Liquid Density** | No information available |

## 10. STABILITY AND REACTIVITY

**Reactivity** No reactive hazards known/expected.

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**Possibility of hazardous reactions** Reacts violently with BrF3 and sulfuric acid at 600°C.

**Conditions to avoid** Hygroscopic. Protect from moisture.

**Incompatible materials** None known based on information supplied.

**Hazardous decomposition products**

Potassium oxides, Chlorine and hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

**Information on the likely routes of exposure**

**Product Information**

**Symptoms** No information available.

**Numerical measures of toxicity**

**Acute toxicity**

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| potassium chloride | >2000 mg/kg (Rat) | - | - |

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** Based on available data, the classification criteria are not met

**Germ cell mutagenicity** Based on available data, the classification criteria are not met

**Carcinogenicity** Based on available data, the classification criteria are not met. The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | IARC | ACGIH | NTP |
|---|---|---|---|
| potassium chloride | - | - | - |

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met

**Aspiration hazard** Not expected.

# 12. ECOLOGICAL INFORMATION

## Toxicity

**Ecotoxicity** Based on available data, the classification criteria are not met.

**Component Information**

| Chemical name | Algae/aquatic plants | Fish | Crustacea | Toxicity to microorganisms |
|---|---|---|---|---|
| potassium chloride | EC50: > 100 mg/L (72h, Desmodesmus subspicatus) | LC50: 880 mg/L (96h, Pimephales promelas) | EC50: 440-880 mg/L (48h, Daphnia magna) | EC50: >1000 mg/L (3h, activated sludge) |

## Persistence and degradability

Not relevant for inorganic salts.

## Bioaccumulative potential

Not expected to bioaccumulate.

| Chemical name | Partition coefficient |
|---|---|
| potassium chloride | - |

## Mobility

Not expected to adsorb on soil.

## Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers should be disposed of in accordance with all applicable laws and regulations.

## 14. TRANSPORT INFORMATION

**IMDG**

| | |
|---|---|
| **UN number or ID number** | - |
| **Transport hazard class(es)** | Not regulated |
| **Packing group** | Not regulated |
| **Marine pollutant** | Not applicable |
| **Special precautions** | None |
| **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** | No information available |

**ADR/RID/ADN**

| | |
|---|---|
| **UN number or ID number** | Not regulated |
| **Transport hazard class(es)** | Not regulated |
| **Packing group** | Not regulated |
| **Environmental hazards** | Not applicable |
| **Special precautions** | None |
| **Classification code** | No information available |

**IATA**

| | |
|---|---|
| **UN number or ID number** | Not regulated |
| **Transport hazard class(es)** | Not regulated |
| **Packing group** | Not regulated |
| **Environmental hazards** | Not applicable |
| **Special precautions** | None |

**DOT** Not regulated
**UN/ID no** Not regulated

## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

GHS hazardous component CAS registry numbers appearing in section 3 may differ from substances appearing in section 15 due to country or regional chemical inventory coverage requirements, however, remain in compliance with the inventory
Products that are used as food additives are exempt from listing in international chemical inventories

For further details on the regulatory status for this product in a specific country, please send your inquiry to the following email address: msdsinfo@icl-group.com

| | |
|---|---|
| **TSCA** | Listed or exempted |
| **DSL** | Listed or exempted |
| **ENCS** | Listed or exempted |
| **IECSC** | Listed or exempted |
| **KECL** | Listed or exempted |
| **PICCS** | Listed or exempted |
| **AIIC** | Listed or exempted |
| **NZIoC** | Listed or exempted |
| **TCSI** | Listed or exempted |
| **NCI** | Listed or exempted |
| **TECI** | Listed or exempted |
| **NSQ** | Listed or exempted |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL** - Canadian Domestic Substances List
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AIIC** - Australian Inventory of Industrial Chemicals
**NZIoC** - New Zealand Inventory of Chemicals
**TCSI** - Taiwan Chemical Substance Inventory
**NCI** - Vietnam National Chemicals Inventory
**TECI** - Thailand Inventory FDA Existing Chemicals
**NSQ** - Mexico National Inventory of Chemical Substances

## 16. OTHER INFORMATION

**Revision date** 07-Feb-2022

**Revision Note** The symbol (***) in the margin of this SDS indicates that this line has been revised.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | | | |
|---|---|---|---|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | * | Skin designation |
| C | Carcinogen | | |

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**End of Safety Data Sheet**